INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/12202

5. This report has been established as if (some of) the amendments had not been made, since they been considered to go beyond the disclosure as filed (Rule 70.2(c)).					d (Hule 70.2(C)).	
		(Any replacement sheet contain report.)	ing sud	ch amendmei	nts must be referred to under item 1 and annexed to this	
6.	Additional observations, if necessary:					
					, inventive step and industrial applicability	
1.	The obv	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- obvious), or to be industrially applicable have not been examined in respect of:				
		the entire international application	on,			
	×	claims Nos. 16, 29				
		because:				
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. 16, 29 are so unclear that no meaningful opinion could be formed (specify):					
	see separate sheet					
		the claims, or said claims Nos. could be formed.	are so	inadequately	supported by the description that no meaningful opinion	
		no international search report h				
 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleor amino acid sequence listing to comply with the standard provided for in Annex C of the Administrations: 					nnot be carried out due to the failure of the nucleotide and dard provided for in Annex C of the Administrative	
	☐ the written form has not been furnished or does not comply with the Standard.					
the computer readable form has not been furnished or does not comply with the Standard.					ed or does not comply with the Standard.	
٧	V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement					
1	. Statement					
	No	ovelty (N)	Yes: No:	Claims Claims	1-15, 17-28, 30	
	ln	ventive step (IS)	Yes: No:	Claims Claims	1-15, 17-28, 30	
	ln	dustrial applicability (IA)	Yes: No:	Claims Claims	1-15, 17-28, 30	

2. Citations and explanations

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see separate sheet

INTERNATIONAL PRELIMINARY

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EXAMINATION REPORT - SEPARATE SHEET

Reference is made to the following documents.

D1: WO 02/103972 A (ERICSSON) 27 December 2002

D2: WO 02/43271 A (ERICSSON) 30 May 2002

D3: WO 02/082711 A (ERICSSON) 17 October 2002

D1 is mentioned in connection with Rules 70.10 and 64.3 PCT. It was filed on 17th June 2002, and claimed priority date of 19th June 2001.

Re Item III

Claims 16 and 29 are unclear in such a way that it is impossible to distinguish their subject matter from that of the prior art. The final paragraphs of these two claims are so obscure, that it is impossible to discern the subject matter for which protection is sought.

Re Item V

D2 and D3 disclose a hypothesis testing procedure for joint channel estimation and synchronisation. However, neither of these documents discloses the combination of such a procedure in combination with the size of the equaliser window. It follows that the subject matter of independent claims 1 and 14 is novel, as is that of those claims which depend on these. The effect of setting the window size is to include all significant effects of the channel in the estimation, while simultaneously excluding irrelevant coefficients which would only contribute noise. The problem can, therefore, be taken as reducing noise while providing effective equalisation. There is nothing in D2 or D3, or in the general knowledge of the skilled person, which would lead to the solution of this problem by setting the size of the equaliser window. It follows that the subject matter of claim 1 and 14, together with that of their dependent claims, involves an inventive step.

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	Basis	of the	report
l	Basis	or the	i choi r

1. With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	_						
	Desc 1-33	ription, Pages	as originally filed				
	1-00						
•	Clain	ns, Numbers					
	1-30		as originally filed				
	Drav	vings, Sheets					
	1/4-4		as originally filed				
2.	With lang	regard to the langua guaguaguaguaguaguaguaguaguaguaguaguaguag	ge, all the elements marked above were available or furnished to this Authority in the mational application was filed, unless otherwise indicated under this item.				
			lable or furnished to this Authority in the following language: , which is:				
		the language of a tran	nslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of public	cation of the international application (under Rule 48.3(b)).				
		the language of a trar Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under).				
3.	With	n regard to any nucleo rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
			national application in written form.				
		filed together with the	e international application in computer readable form.				
			tly to this Authority in written form.				
☐ furnis		furnished subsequen	urnished subsequently to this Authority in computer readable form.				
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosing the international application as filed has been furnished.						
The statement that the information recorded in computer readable form is identical to the written listing has been furnished.			he information recorded in computer readable form is identical to the written sequence				
4	l. Th	The amendments have resulted in the cancellation of:					
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

		Rec	SPSI/PIO I U WAY ZUUS		
Applicant's or agent's file reference P20200482 WO	FOR FURTHER ACTIO	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No. PCT/EP 03/12202	International filing date (day)	nonth/year)	Priority date (day/month/year) 20.11.2002		
International Patent Classification (IPC) or be	oth national classification and li	PC			
H04L25/02					
Applicant TELEFONAKTIEBOLAGET L M ERICSSON (PUBL) et al.					
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.					
2. This REPORT consists of a total	of 5 sheets, including this o	cover sheet.			
have emended and are the	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a total	of sheets.				
3. This report contains indications a	relating to the following item	s:			
	olumny to the remaining				
I ☐ Basis of the opinion					
	f opinion with regard to nov	eltv. inventive step	and industrial applicability		
IV Lack of unity of inver					
V M Reasoned statement	and industrial applicability				
1					
	The state of the s				
Date of submission of the demand		Date of completion of this report			
08.05.2004		06.10.2004			
Name and mailing address of the internat preliminary examining authority:	ional	Authorized Officer	garthubes Policies.		
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